IN THE CLAIMS

1. (currently amended) A method selecting a circuit to service an application request to transmit data over a network, the network having a plurality of circuits that include at least one low bandwidth circuit and one high bandwidth circuit, comprising:

measuring, for each of eircuits the circuits, an average utilization if the application request is assigned to the circuit;

assigning the application request to the high bandwidth circuit if the average utilization is less than a predetermined threshold;

assigning the application request to the low bandwidth circuit if the average utilization is less than one, and otherwise

declining the application request.

- 2. (currently amended) The method of claim 1 wherein the predetermine predetermined threshold is one minus a guard bandwidth for preventing saturation of the high bandwidth circuit.
- 3. (original) The method of claim 1 wherein the average utilization for each circuit is determined as a probability, and further comprising:

selecting a particular circuit having a smallest probability;

assigning the application request to the selected circuit if the selected circuit is the high bandwidth circuit and the average utilization is less than a predetermined threshold;

assigning the application request to the selected circuit if the selected circuit is the low bandwidth circuit and the average utilization is less than one, and otherwise

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declining the application request.

4. (original) The method of claim 3 wherein the network includes a plurality of

high bandwidth circuits.

5. (original) The method of claim 3 wherein the probability is based on a mean

data arrival rate μ_S and a standard deviation σ_S of the data arrival rate of traffic

with an identical application type as the application request, and with a mean data

rate $\mu_{\rm W}$ and a standard deviation $\sigma_{\rm W}$ of aggregate traffic on the high bandwidth

circuit.

6. (original) The method of claim 5 wherein the mean data arrival rate μ_S and the

standard deviation σ_s of the data arrival rate of traffic with the identical

application type as the application request, and with the mean data rate $\mu_{\rm W}$ and the

standard deviation σ_{W} of aggregate traffic on the high bandwidth circuit are stored

in a table.

7. (currently amended) The method of claim 1 wherein the-an average utilization

 U_h 133 of the high bandwidth circuit is within the last M time slots, where M is an

integer.

8. (currently amended) The method of claim 3 the average utilization over

predetermined number of preceding time slots using a taps taps of a delay line.

9. (original) The method of claim 1 wherein a full utilization is measured as one,

and no utilization is measured as zero.

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10. (original) A system selecting a circuit to service an application request to transmit data over a network, the network having a plurality of circuits that include at least one low bandwidth circuit and one high bandwidth circuit, comprising:

a circuit analyzer configured to measure, for each of circuits an average utilization if the application request is assigned to the circuit; and

an admission control configured for assigning the application request to the high bandwidth circuit if the average utilization is less than a predetermined threshold, assigning the application request to the low bandwidth circuit if the average utilization is less than one, and otherwise declining the application request.

- 11. (original) The system of claim 1 wherein the assigning is performed by a switch configured for connecting the low and high bandwidth circuits to the application request.
- 12. (original) The method of claim 3 wherein the probability is in a form of a Gaussian distribution.